

FIG.1

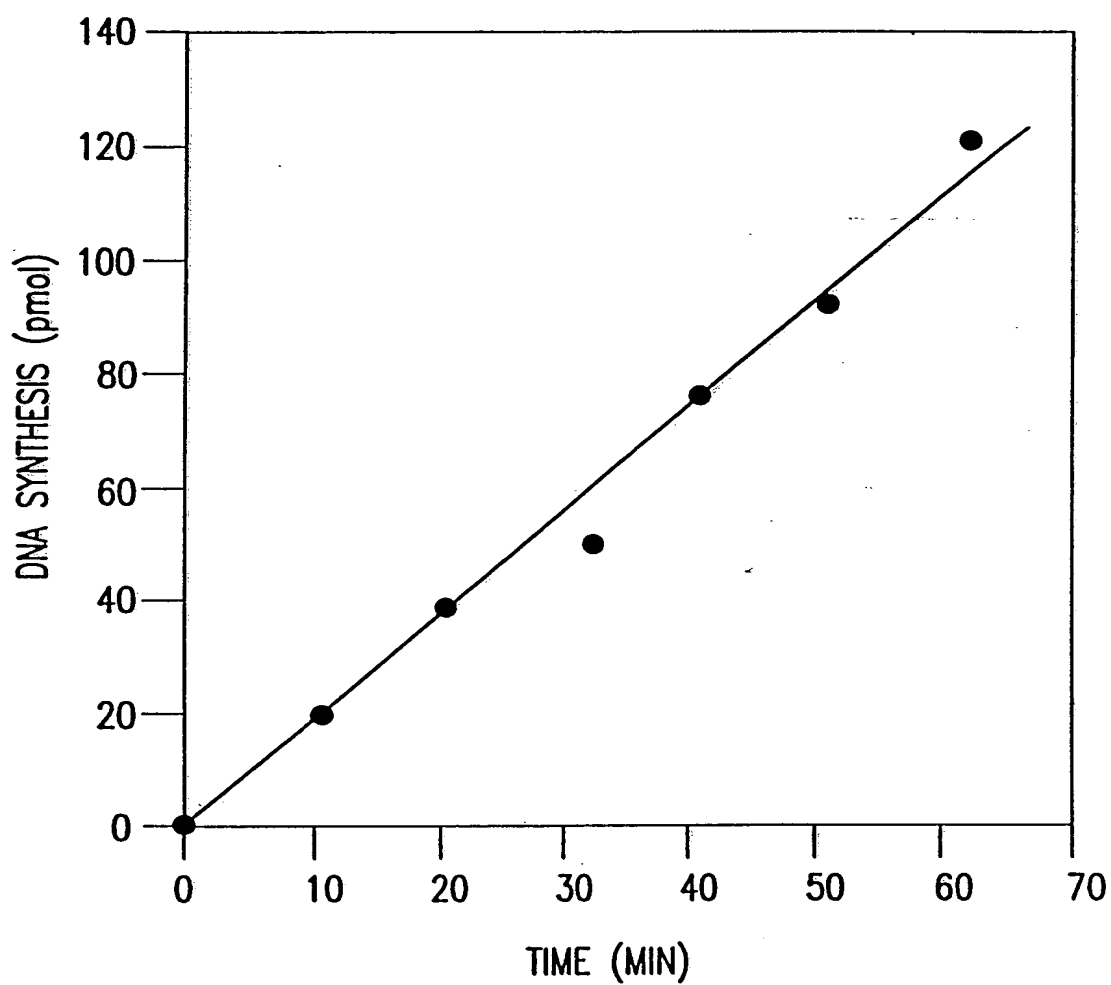
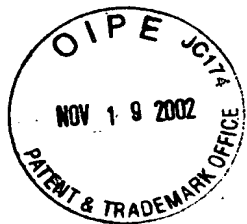


FIG.2

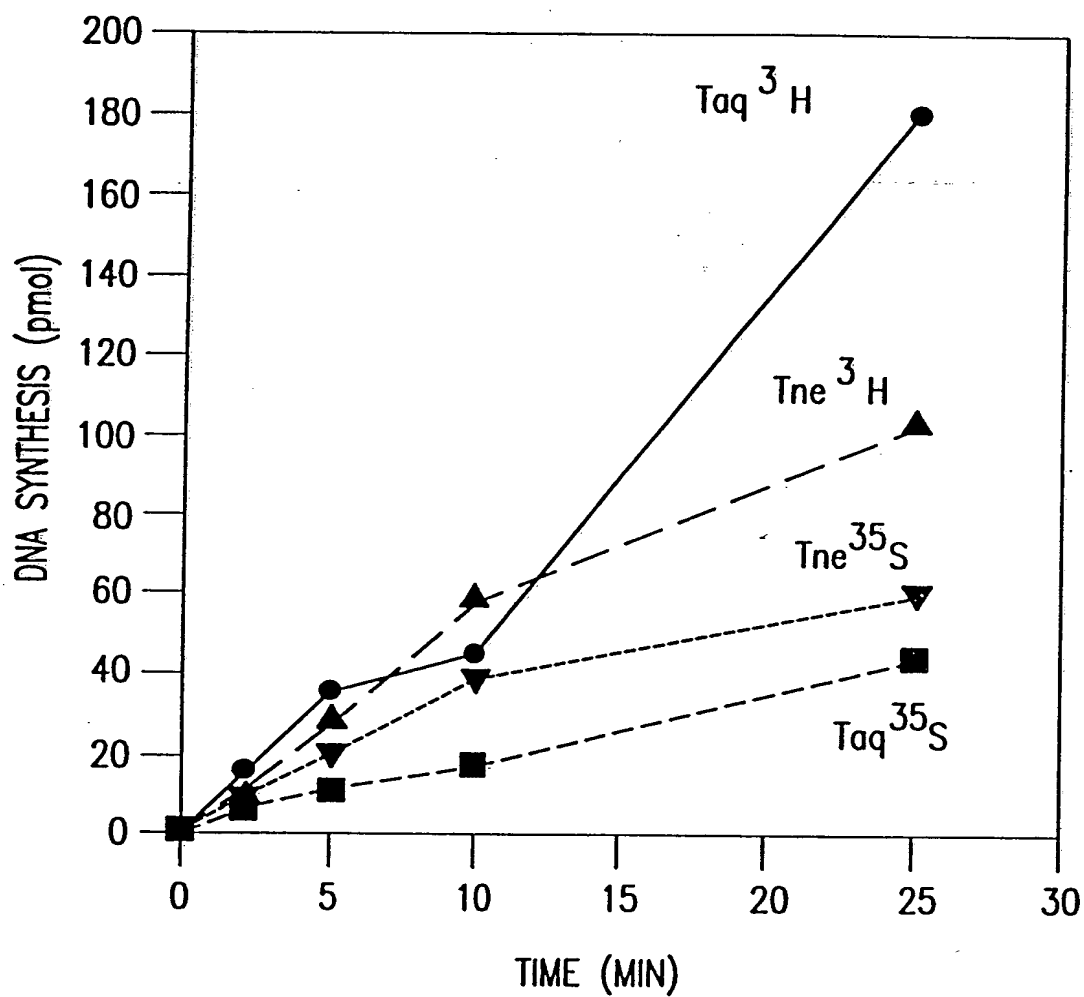


FIG.3

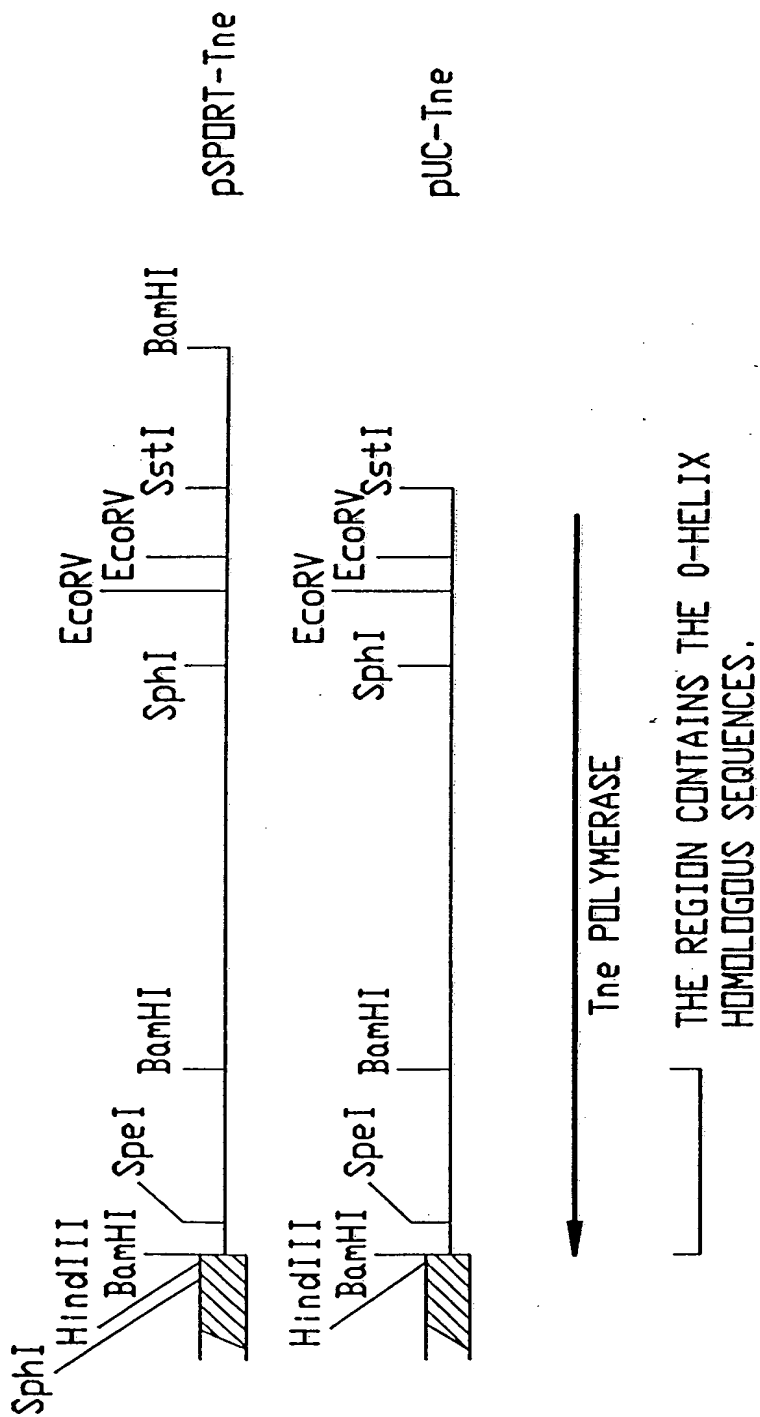


FIG.4



BamHI

1 GGATCCAGAC TGGTGGATCG TCAGTGCGGA TTATCCCAA ATAGAACTCA GAATCCTCGC  
G S R L V D R Q C G L F P N R T Q N P R  
→ D P D W W I V S A D Y S Q I E L R I L  
I Q T G G S S V R I I P K - N S E S S

61 TCATCTCAGT GGTGATGAGA ACCTTGTA GGCCTTCGAG GAGGGCATCG ATGTGCACAC  
S S Q W - - E P C E G L R G G H R C A H  
→ A H L S G D E N L V K A F E E G I D V H  
L I S V V M R T L - R P S R R A S M C T

121 CTTGACTGCC TCCAGGATCT ACAACGTAAA GCCAGAAGAA GTGAACGAAG AAATGCGACG  
L D C L Q D L Q R K A R R S E R R N A T  
→ T L T A S R I Y N V K P E E V N E E M R  
P - L P P G S T T - S Q K K - T K K C D

181 GGTTCGAAAG ATGGTGAAC TCTCTATAAT ATACGGTGTC ACACCGTACG GTCTTTCTGT  
G W K D G E L L Y N I R C H T V R S F C  
→ R V G K M V N (F) S I I Y G V T P Y G L S  
G L E R W - T S L - Y T V S H R T V F L

241 GAGACTTGG AATACCGTTA AAGAAGCAGA AAAGATGATT ATCAGCTATT TCACACTGTA  
E T W N T G - R S R K D D Y Q L F H T V  
→ V R L G I P V K E A E K M I I S Y F T L  
- D L E Y R L K K Q K R - L S A I S H C

301 TCCAAAGGTG CGAAGCTACA TCCAGCAGGT TGTTCAGAG GCAAAAGAGA AGGCCTACGT  
S K G A K L H P A G C C R G K R E G L R  
→ Y P K V R S Y I Q Q V V A E A K E K G Y  
I Q R C E A T S S R L L Q R Q K R R A T

361 CAGGACTCTC TTTGGAAGAA AAAGAGATAT TCCCAGCTC ATGGCAAGGG ACAAGAACAC  
Q D S L W K K K R Y S P A H G K G Q E H  
→ V R T L F G R K R D I P Q L M A R D K N  
S G L S L E E K E I F P S S W Q G T R T

421 CCAGTCCGAA GGCGAAAGAA TCGCAATAAA CACCCCCATT CAGGGAAC TG CGGCAGATAT  
P V R R R K N R N K H P H S G N C G R Y  
→ T Q S E G E R I A I N T P I Q G T A A D  
P S P K A K E S Q - T P P F R E L R Q I

FIG.5A



481 AATAAAATTG GCTATGATAG ATATAGACGA GGAGCTGAGA AAAAGAAACA TGAAATCCAG  
N K I G Y D R Y R R G A E K K K H E I Q  
→ I I K L A M I D I D E E L R K R N M K S  
- - N W L - - I - T R S - E K E T - N P

541 AATGATCATT CAGGTTGATG ACGAACTGGT CTTGAGGTT CCCGATGAGG AAAAAGAAGA  
N D H S G S - R T G L R G S R - G K R R  
→ R M I I Q V H D E L V F E V P D E E K E  
E - S F R F M T N W S S R F P M R K K K

601 ACTAGTTGAT CTGGTGAAGA ACAAATGAC AAATGTGGTG AAATCTCTG TGCCTCTTGA  
T S - S G E E Q N D K C G E T L C A S -  
→ E L V D L V K N K M T N V V K L S V P L  
N - L I W - R T K - Q M W - N S L C L L

661 GGTGACATA AGCATCGGAA AAAGCTGGTC TTGA  
G - H K H R K K L V L  
→ E V D I S I G K S W S -  
R L T - A S E K A G L

FIG.5B

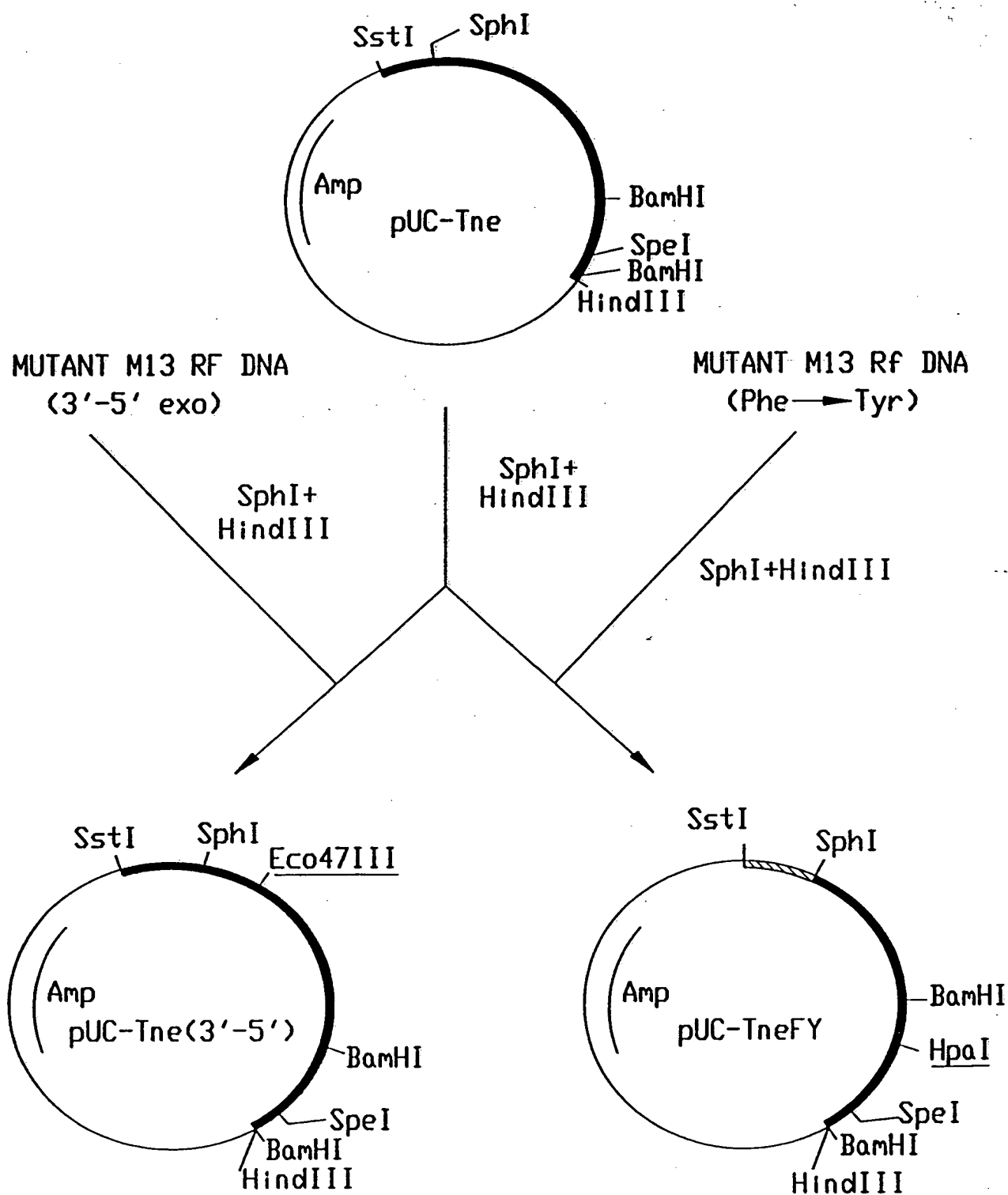


FIG.6A

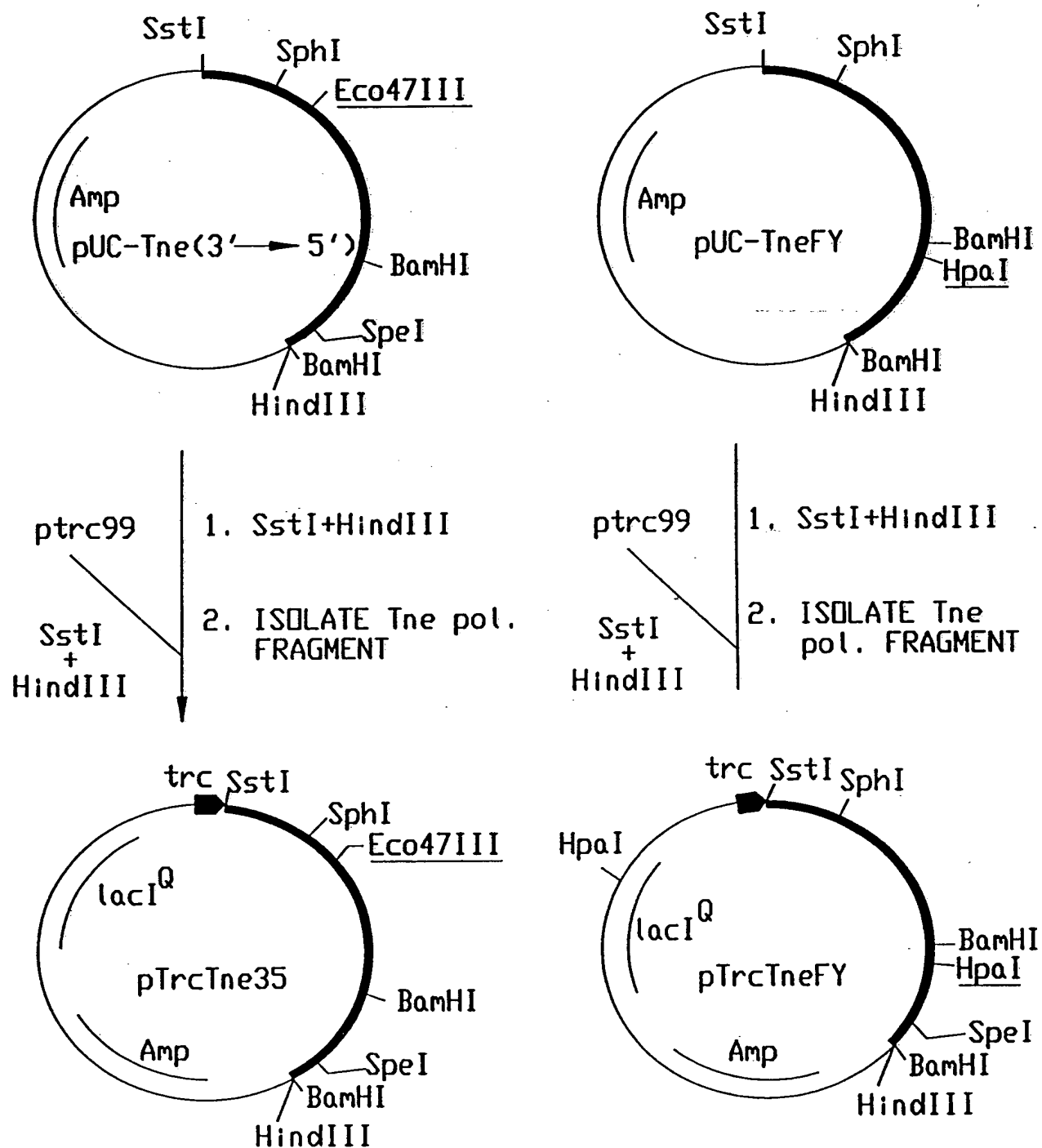


FIG.6B



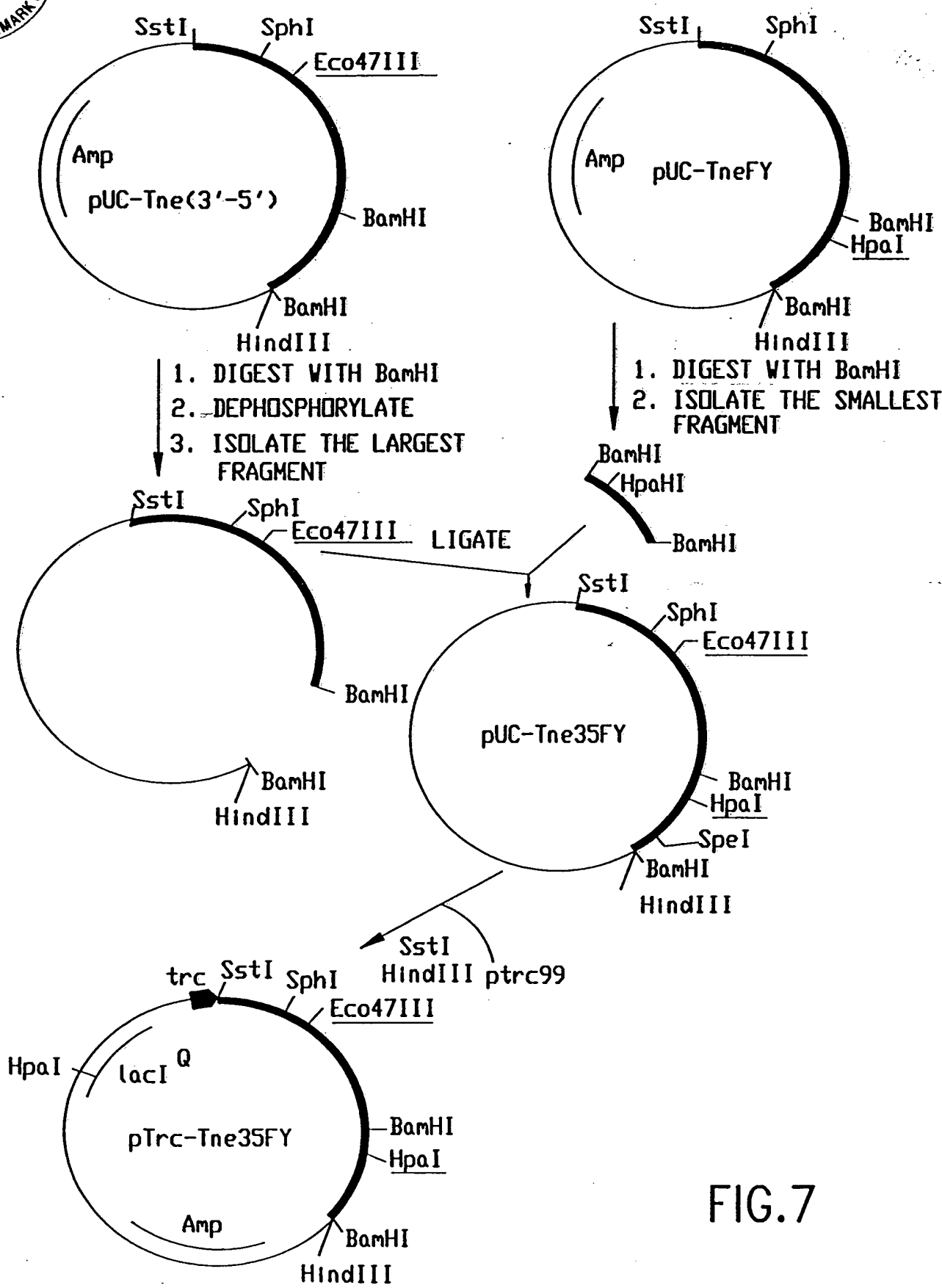


FIG.7

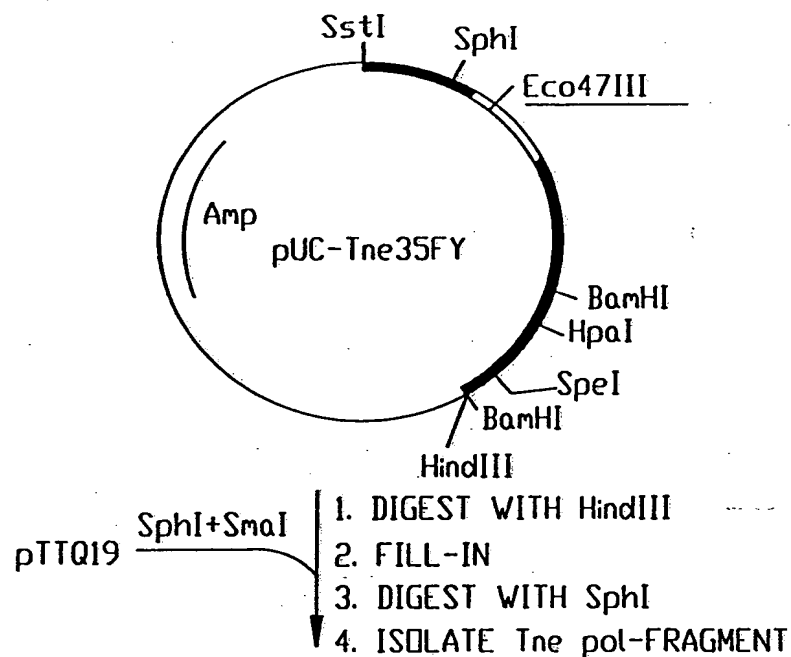
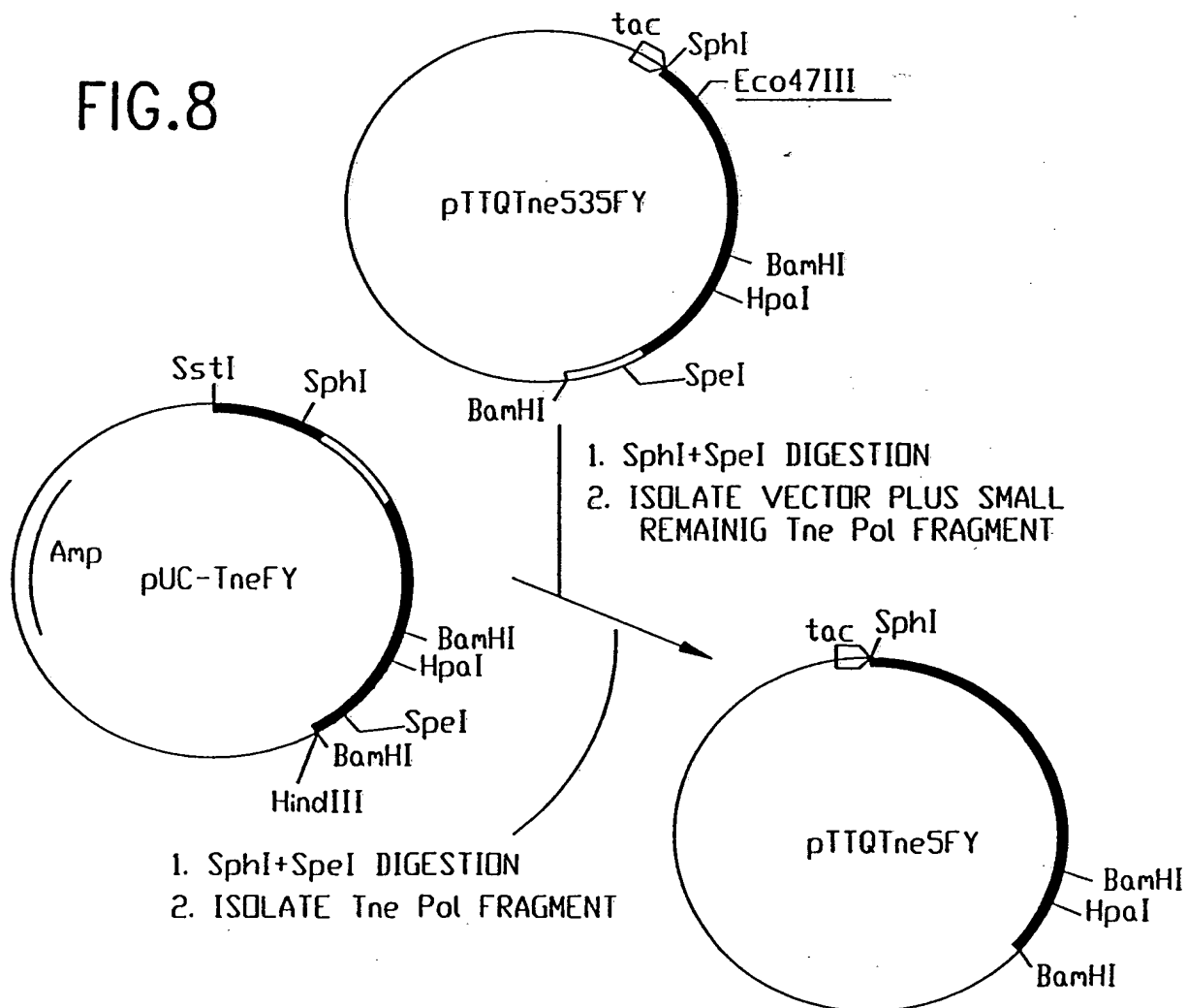
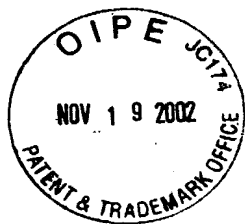


FIG.8





A      B  
ACGT   GATC



FIG.9



FIG.10

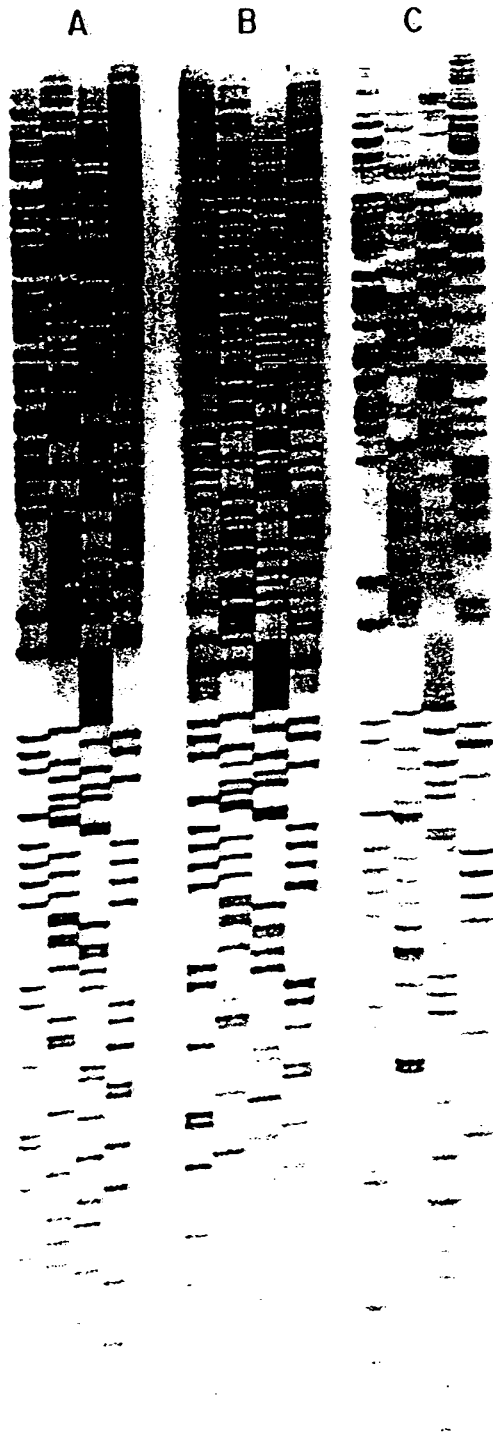


FIG.11

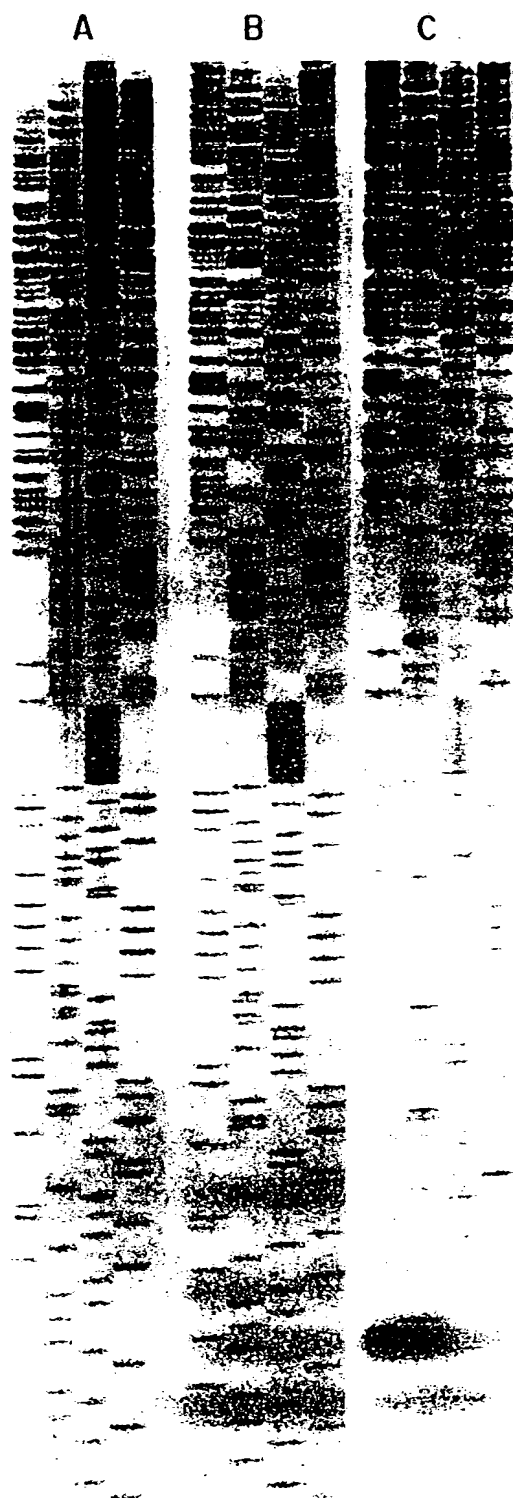


FIG.12

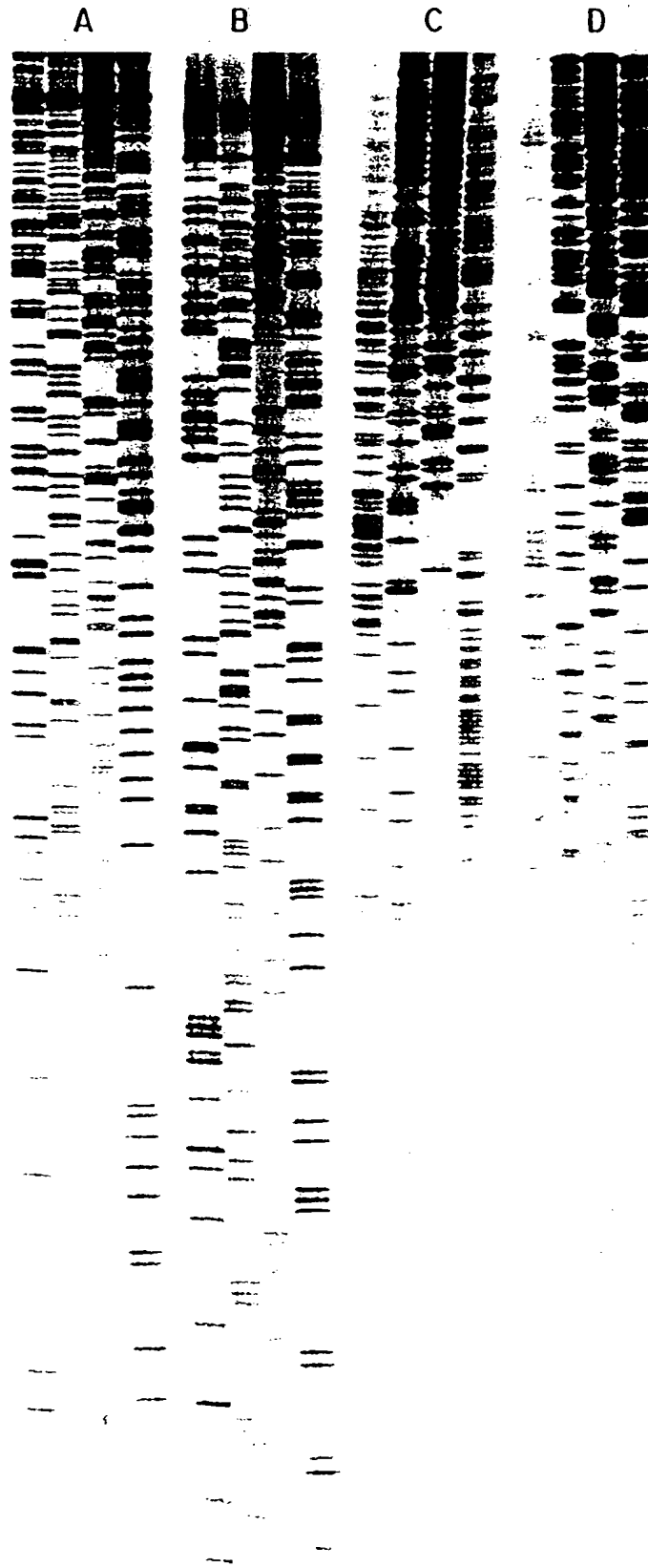


FIG.13

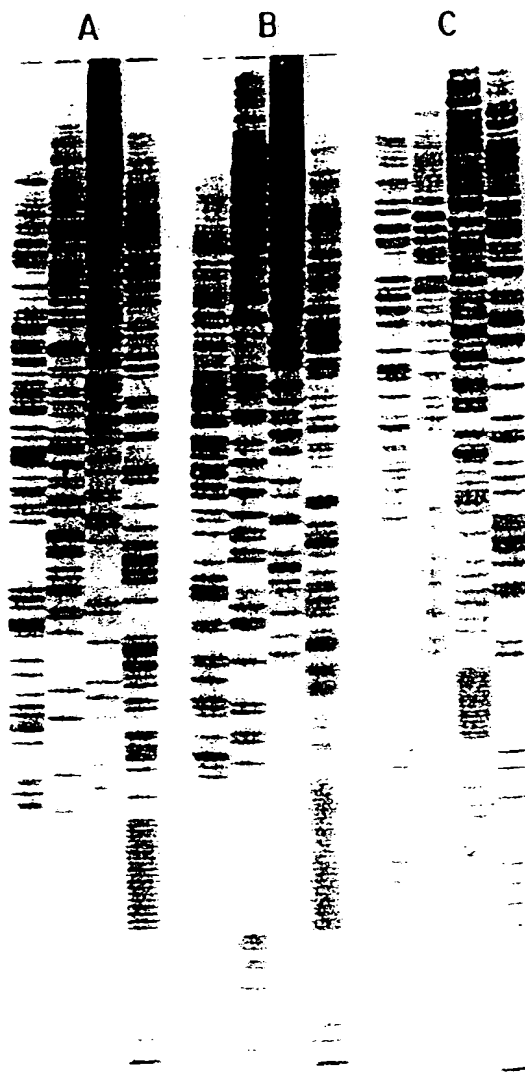


FIG.14A



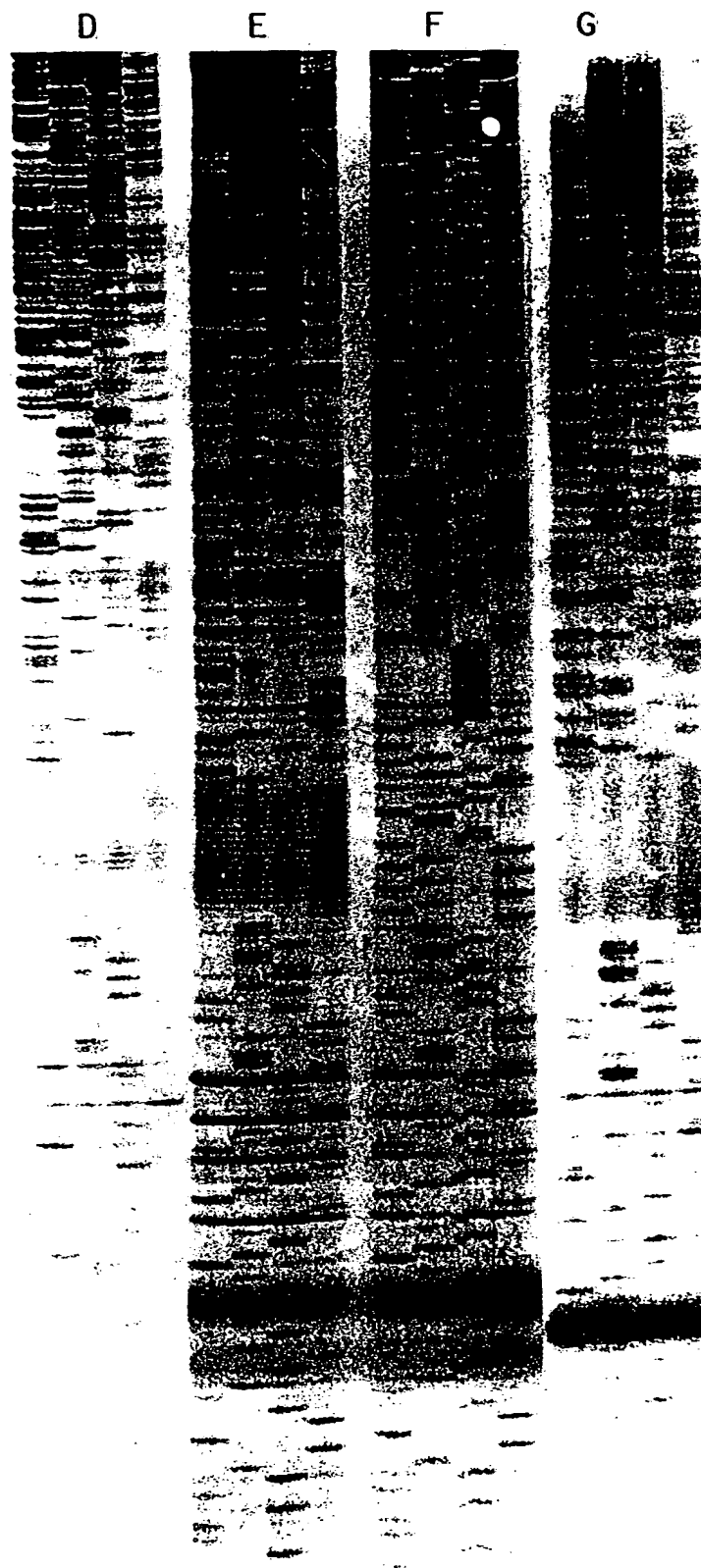
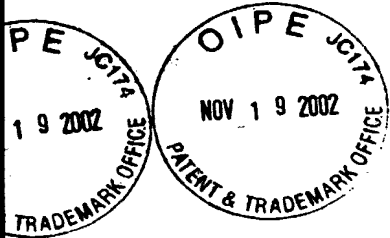


FIG.14B



FIG.15

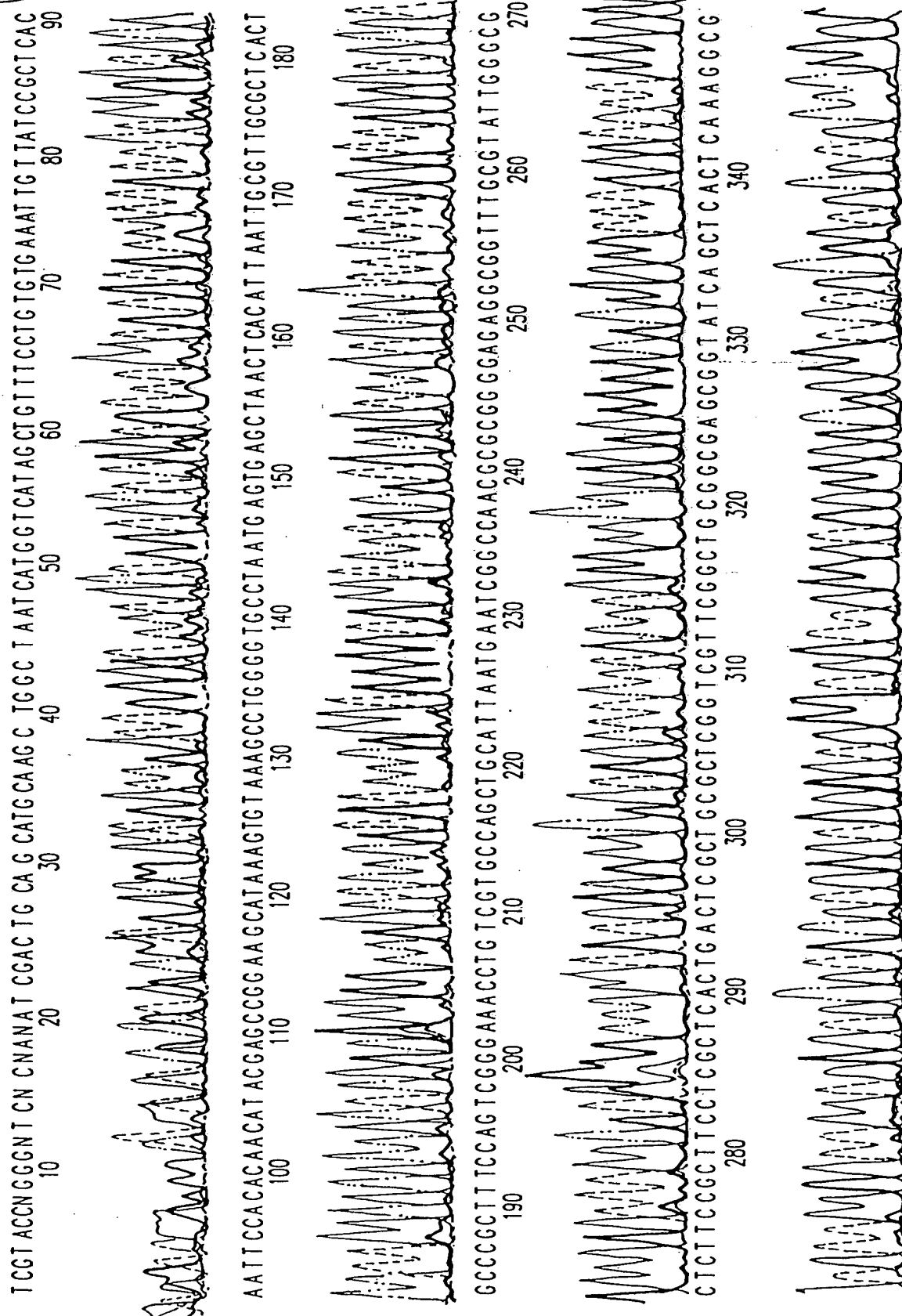
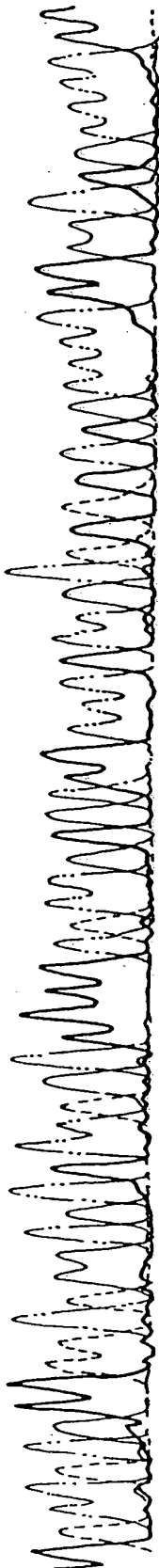


FIG.16A

GTAAACGGTTATCCACAGATCAGGGGAT AACGCAGG AAGAACATGT GAGCAAAGGCCAGCAAAAGG  
350 360 370 380 390 400 410



CCAGGAACCGTTAAAGGCCGGTTGCTGGCGTTTTTCATAGGCTCCGCCCCCTTGA CGAGCATCA  
420 430 440 450 460 470 480



CAAAATTGGACGCTTCAAGTTCA GAGTGGCGGAACCCGACAGGACTAT AAAGATTACCA GGGGTTTTTCC CC  
490 500 510 520 530 540 550 560



CTGGGAAGCTNCCCTTCGTGGCCTCTCTCTGTTCGCCAACC TGGCCGGTTTAACCGGATACCN GNTCCGCCCTTTTNTCCC  
570 580 590 600 610 620 630 640



FIG.16B

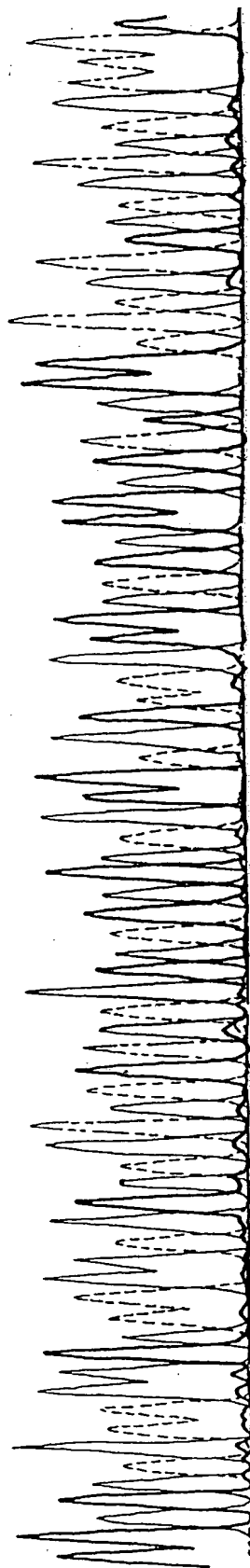
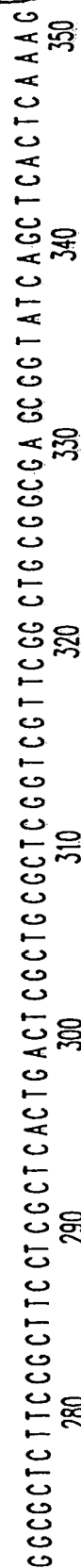


CTTNGCGGGAANCC TTGGGNTTTINGNAAANGCTAAGGTT  
650 660 670 680



FIG.16C





GGCGGTAATACGGTTATCCACAGAAATCAGGGGATAACGCCAGGAAGAACATGTGAGCAAAAGGCCAGCAAA  
360 370 380 390 400 410 420

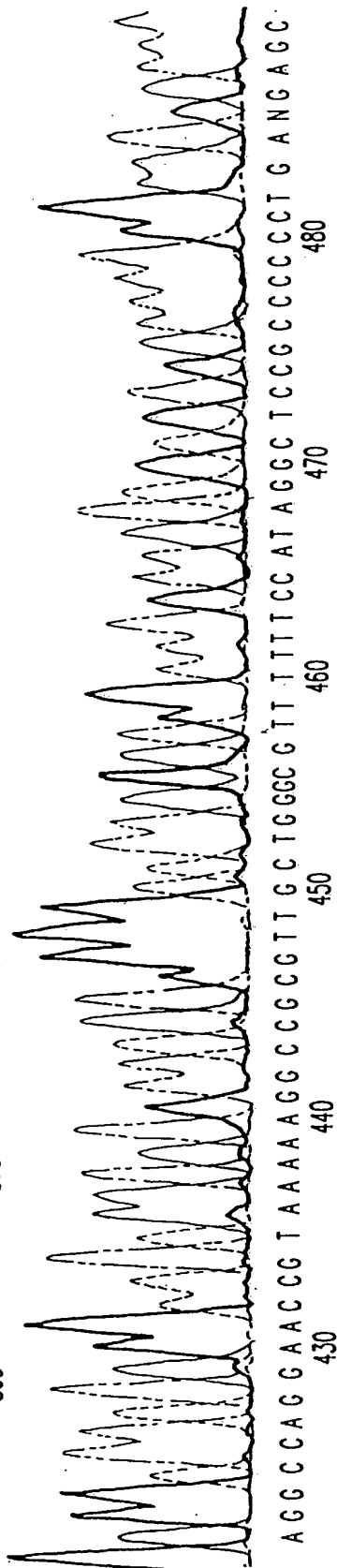


FIG. 16E

ATCANA A AAATCG ANGCTCANGTC ANAGGTGGCGA AACCC GACA GGNC T ATTAAAG ATNCCCAGG CGTTTT  
490 500 510 520 530 540 550 560



CCCCC TGGG AAGCTCCCTCGTGGGGCTCTCCTGGTTNCGGNNCCCTGNCGGNITTA CCG GGGAT AANCTTGTTCCGGNC T T T  
570 580 590 600 610 620 630 640

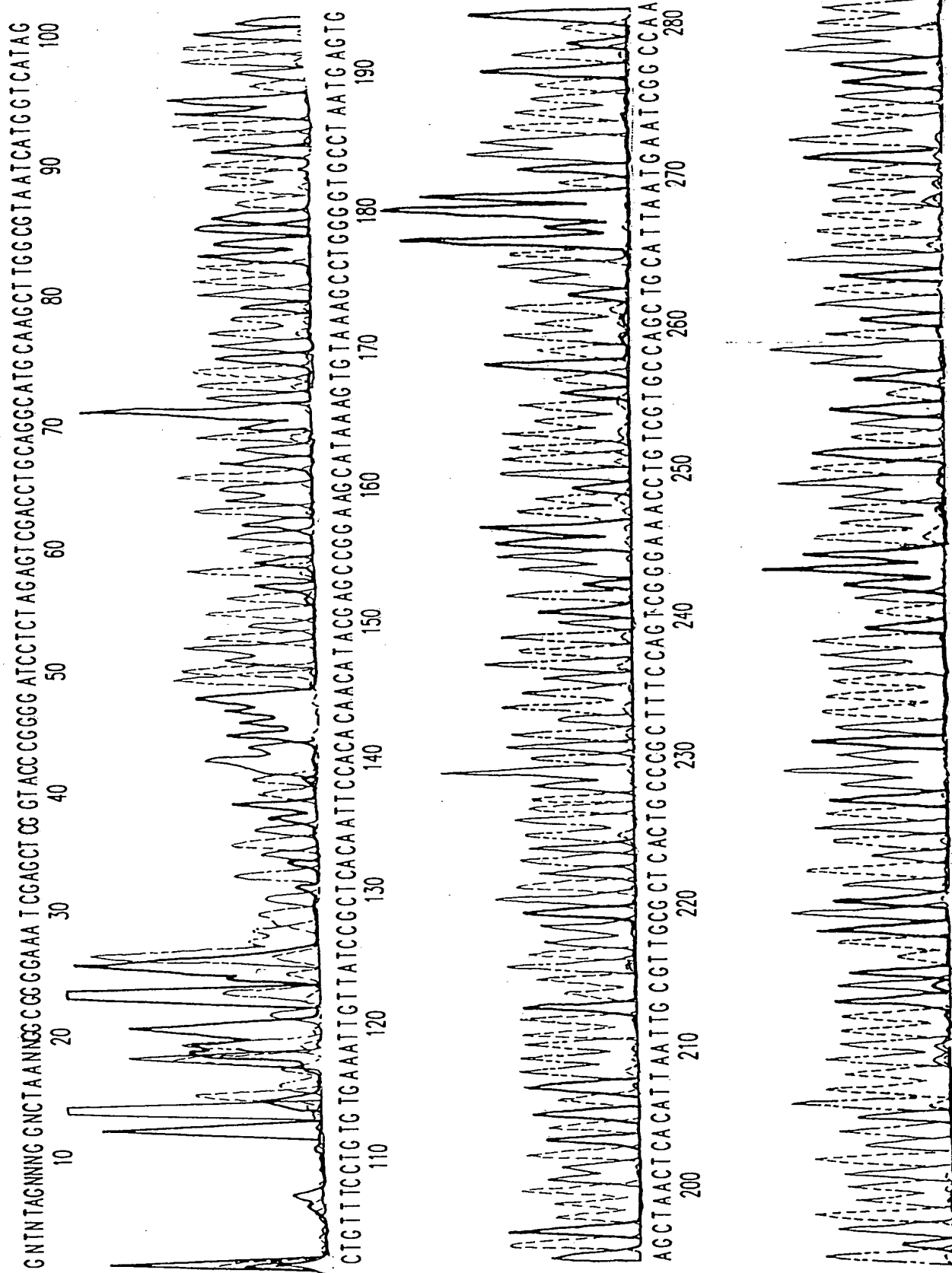


CCCC T T CNGGG AAAANGGTGGGGGGTTTTTNTNNAA AAGGCTCAA GGCTGGT ANG  
650 660 670 680 690 700

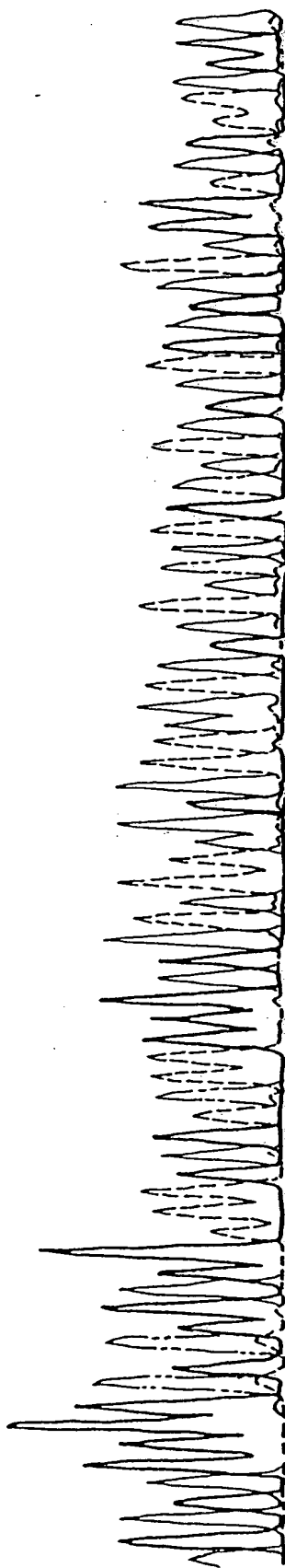


FIG.16F

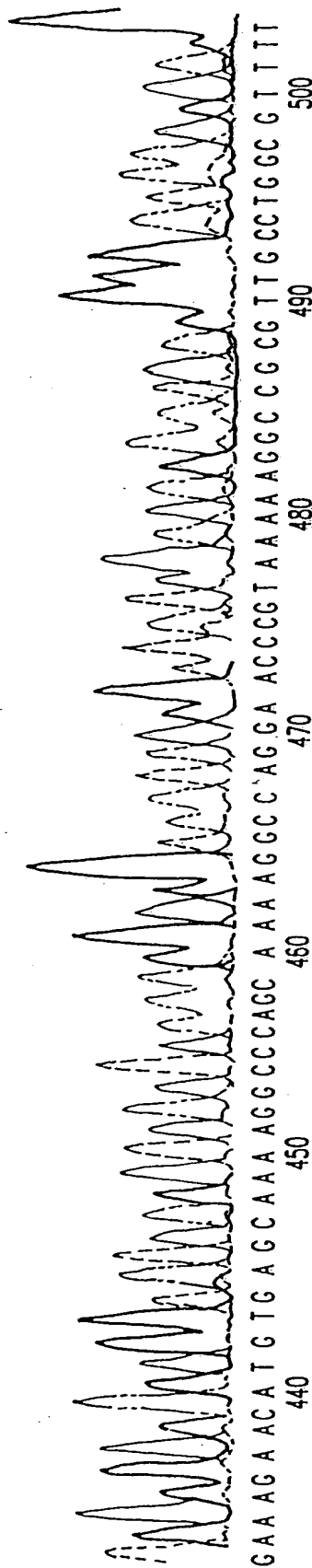




CGCGCGGGAGAGCGGGTTTGGGTATTGGGCGCTCTTCCGCTTCCCTGCTCAGTACTCGCTGCGCTCGGTCTGTTCTGGCC 360  
350  
340  
330  
320  
310  
300



TGCGCGGAGCGGTATCAGCTCAGTCAAGCGCGGTAAATACGGTTATCCACAGAAATCAGGGGATAACGCCAGG 430  
420  
410  
400  
390  
380  
370

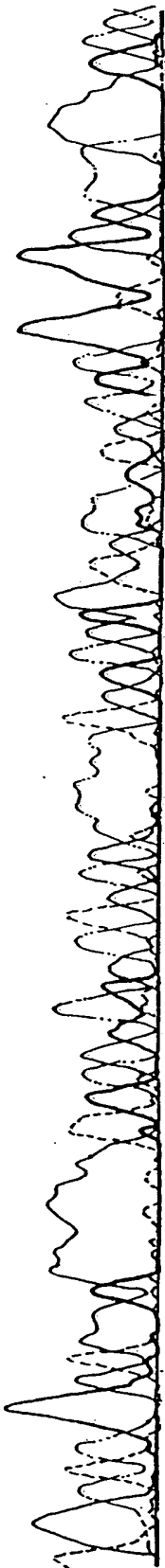


GAAAGACATGTGAGCAAAGGCCAGCAAGGCCAGGACCCGTAAAGGCCCGCGTTGCCCTGGCGTTT 500  
490  
480  
470  
460  
450  
440



FIG.17B

ICC A TAGG CTC CGC C C C C T TG ACG ACG AATC A C A A A A T C G A C G C T C A A A G T C A G A G G T G G C G A A A C C C C G A C  
510 520 530 540 550 560 570



AGG GAC T T A A G A T A C C C A G G C C G T T I C C C C T G G A A G C T C C C C T C C G T G C G C T T C C G A C C C T G C C G C T T T A C  
580 590 600 610 620 630 640 650 660



C N G G A T N C C T G T C C G C C C T T T I N T C C C T T C N G G N A A C C G G C G C C T T T T T T T T  
670 680 690 700 710



FIG.17C

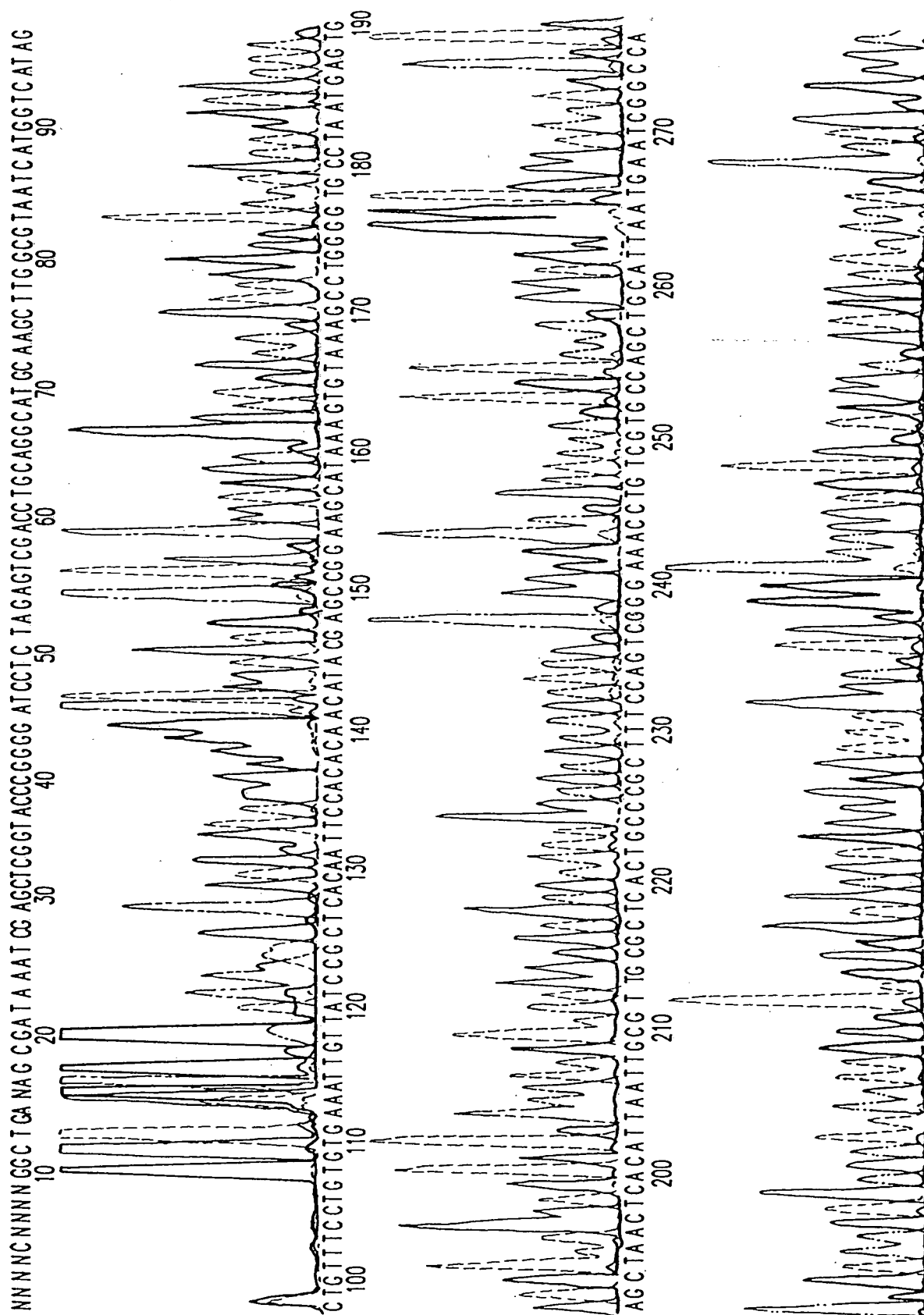


FIG.17D

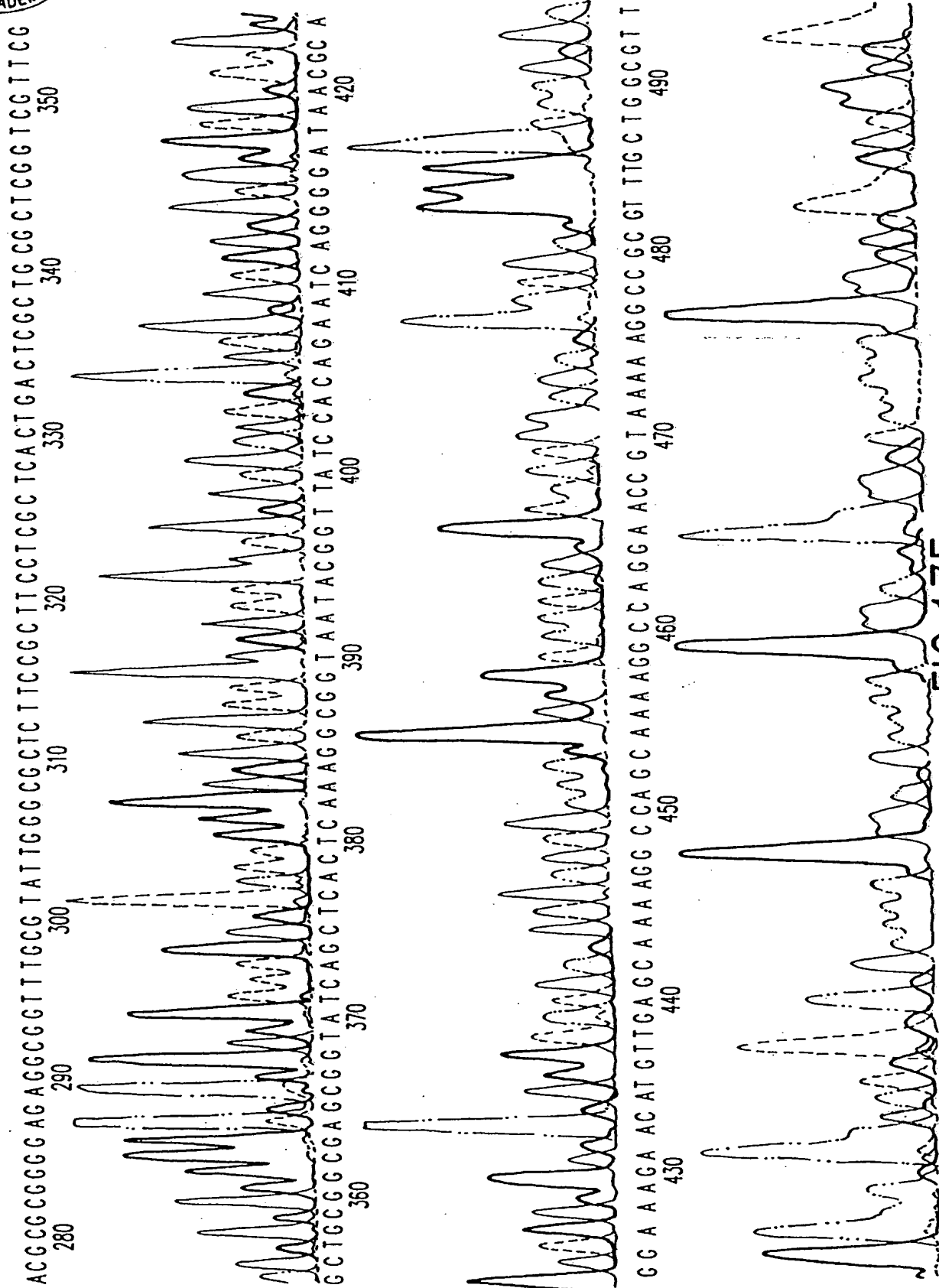


FIG.17E

T T T C C C A T A G G C T C C G C C C C C C T T G A C G A A C C A A A A T C G A C G C T C A A T T C A G A A G T T G C G A A A A C C C G  
500 510 520 530 540 550 560

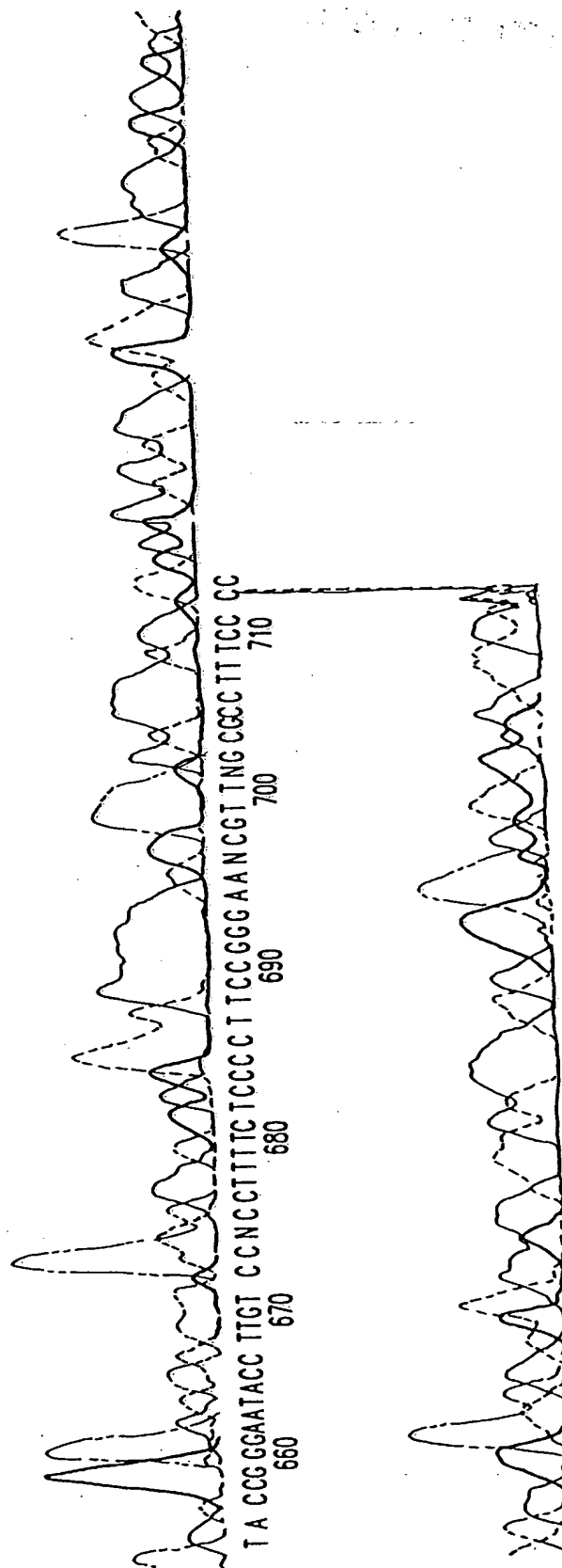
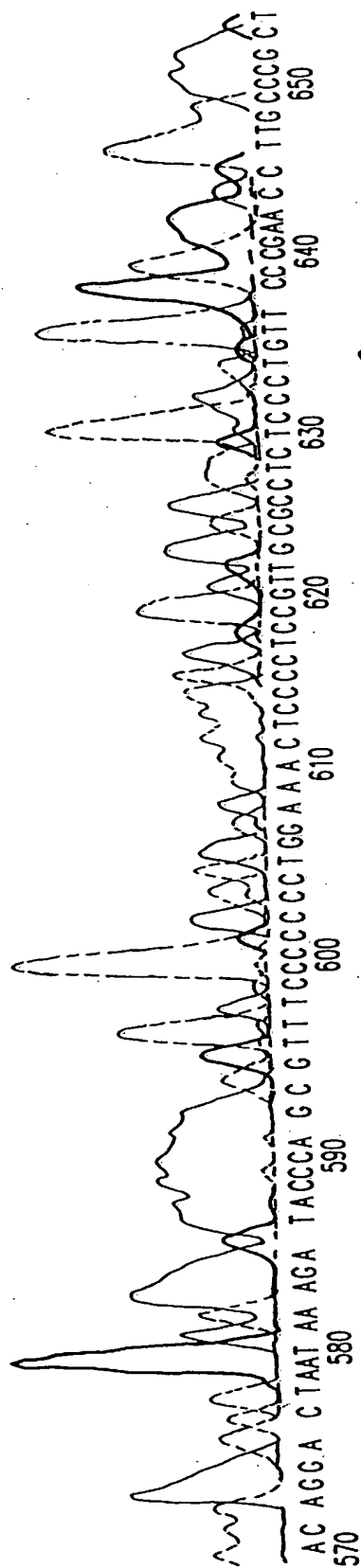


FIG.17F

TTTCCCATAGGCTC CGCCCC CCTTGA CGAACCAT CACAAA AATCGA CGCTCA ATT CAGAAG TTGG CGAAAA CCGG  
500 510 520 530 540 550 560

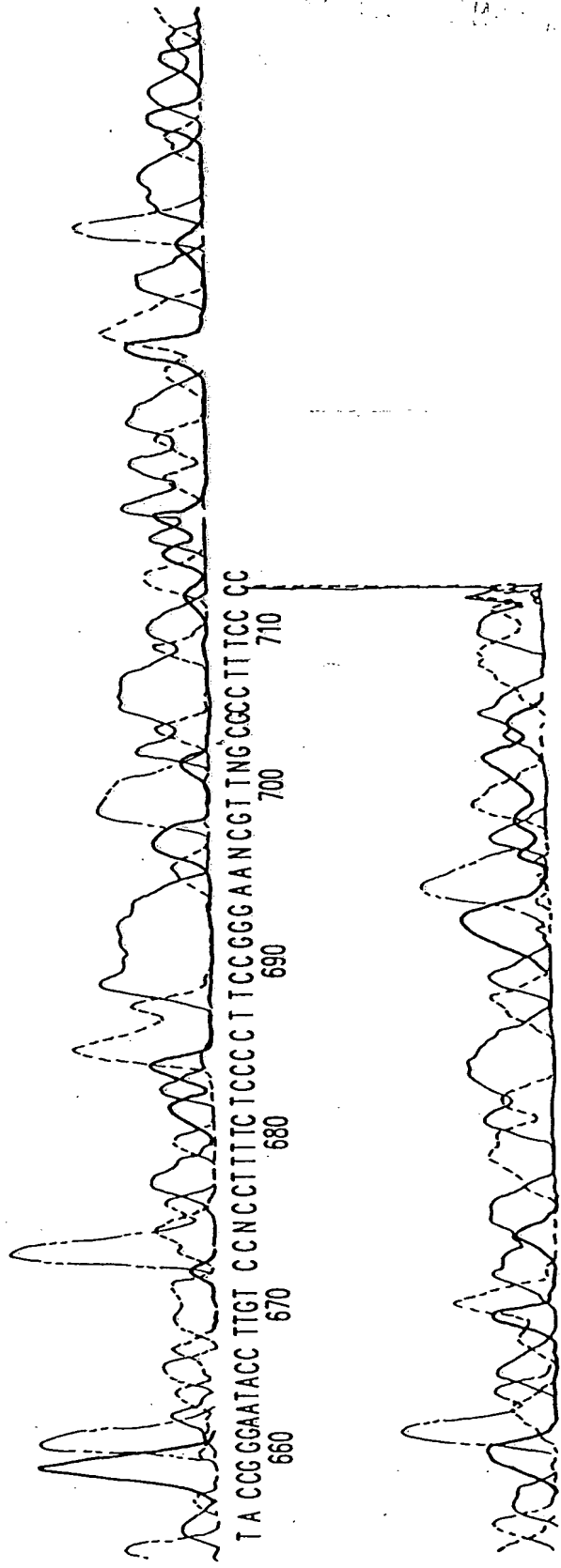
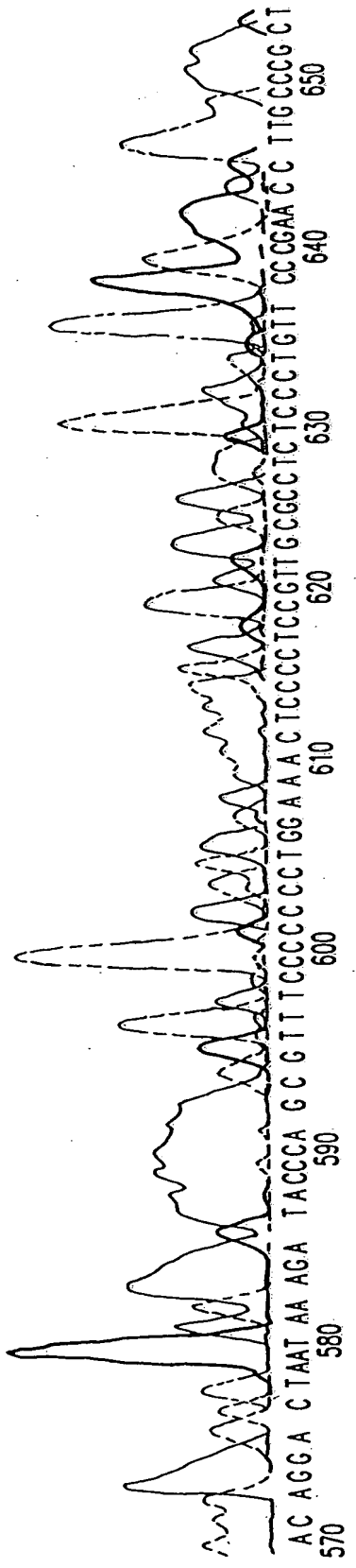


FIG.17F